Telecom Network Planning & Design

Network design is no walk in the park. Just ask TripAdvisor, the leading travel review site in the world.
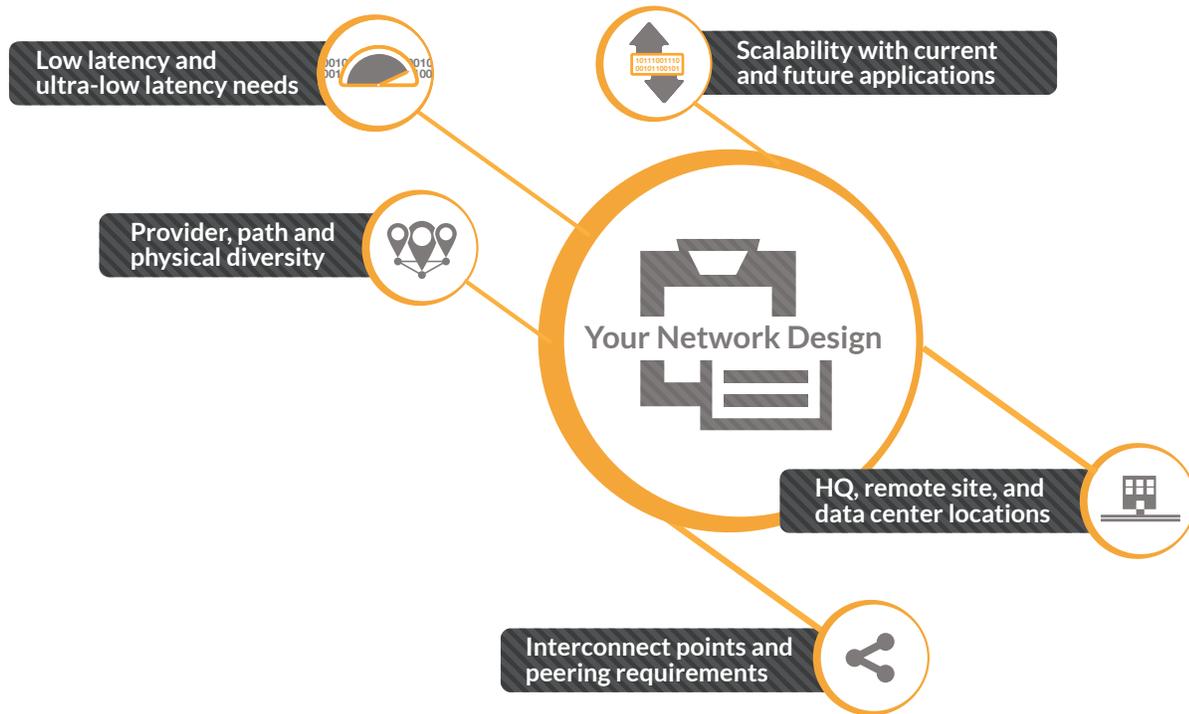
When TripAdvisor needed to select a secondary data center site for disaster recovery and connect it via high bandwidth fiber to their headquarters location as well as their primary colocation center, they chose NEF to plan and design their complex optical network and colo infrastructure. NEF worked with TripAdvisor to narrow and select sites aligned with their business requirements and design a fiber optic network connecting their sites that was secure, diverse and scalable.

Careful planning and design exercises are vital to optimal, scalable high bandwidth networks and colocation projects. At NEF, our network design services are led by veterans in the industry with decades of experience, deep hands-on expertise and close ties to the providers themselves. Whether your network design needs include adding circuits, increasing bandwidth, creating diversity, selecting data center sites, or implementing BC/DR, NEF is the go-to source for network planning and design.

More than obvious point A to point B routes, our network design services encompass key elements of the planning process that go far beyond the obvious...

When it comes to network design, we're the gold standard. From high capacity, multipoint telecommunications networks to the latest in optical networking equipment to the data centers that house that gear, NEF is the leader in planning and designing mission critical networks and the associated data centers.

NEF

Low latency and
ultra-low latency needs

Scalability with current
and future applications

Provider, path and
physical diversity

Your Network Design

HQ, remote site, and
data center locations

Interconnect points and
peering requirements

Why Outsource Network Planning?

The answer to "why rely on a third party to plan your network?" is very simple: expertise and impartiality. Network design and planning is a part of our everyday responsibilities at NEF, so it stands to reason we're well versed in all aspects of the network design process. Because we understand the nuances of the planning process, we can often provide creative and different solutions than companies can source on their own. What's more, NEF's solutions are vendor neutral. We seek to route your fiber networks over the shortest distances, with the best interconnect options, and the least amount of construction. Those three elements of the planning process mean you'll get...

- *Optimized network performance*

- *Lower overall project costs*

- *Quicker project completion*

- *A network that will grow and scale and keep pace with your company's evolving requirements*

If you can get telecom networks designed to be better, faster and cheaper, why wouldn't you use NEF? Talk with us today about your upcoming project or request a real-life example of our network design services. **Visit NEFiber.com/network-design or call 877-353-4237.**

What Goes Into Network Planning? A Whole Lot.

Define requirements

- *Understand current business needs, drivers, applications*
- *Discuss future growth/expansion possibilities*

Gather all existing info

- *Review all existing contracts, financial, interfaces*
- *Study network, equipment, data centers, NOC, X-connects, peering*
- *List & understand stakeholders/impacts*

Create preliminary design

- *Solicit client feedback*

Determine solutions/directions

- *Research provider options, network routes, product availability*
- *Align solutions with goals, budget & stakeholders*

Validate and publish design recommendations

- *Present documented solution set in written form*
- *Host an audit review session*

With NEF's network planning services, a preponderance of time is spent at the outset of the planning project. A good portion of networks fail to meet expectations after the initial launch, which is why NEF first seeks to understand the requirements at the business level, then the IT level, then the application level, and finally at the individual stakeholder level. This intense focus on defining the requirements means that the networks we design withstand the test of time and are designed to be flexible in practice not just in theory.

Equipped with the copious review of requirements and the people they serve, NEF then moves into solution design where our experts create actionable deliverables including a comprehensive vendor matrix and interactive solution map. We validate our findings and provide design review sessions with clients to ensure the design aligns with their goals and budget.

Don't take our word for it. Hear about the value and high-touch service we've delivered from our satisfied clients. Request a case study or talk with our network planning and design team today.